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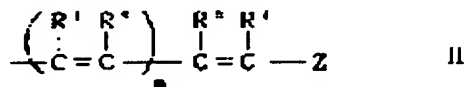
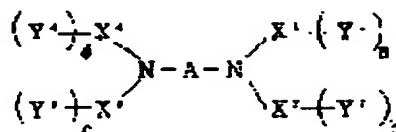
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(54) ORGANIC ELECTROLUMINESCENT ELEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To improve the light emitting efficiency and lifetime by including a specified quantity of the organic EL element material composed of a special compound as the center of the emission in a light emitting layer.

SOLUTION: A light emitting layer includes 0.1-20 wt.% of an element material made of a compound expressed by formula I as the emission center. In formula I, A means a substituent or non-substituent allylene group having 6-21 carbon atoms, X1-X4 mean each a separate substituent or non-substituent allylene group having 6-30 carbon atoms (X1 and X2, X3 and X4 can be connected to each other), Y1-Y4 respectively means a group expressed with formula II, (a)-(d) is an integer 0-2, and (a)+(b)+(c)+(d)>0. In formula II, R1-R4 separately means a hydrogen atom, a substituent or non-substituent alkyl group and cyano group having 1-20 carbon atoms, or triple bond of R1 and R2, R3 and R4, and Z means a substituent or non-substituent aryl group having 6-20 carbon atoms, and (n) is 0 or 1.



LEGAL STATUS

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